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157391

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Sent: Thursday, June 23, 2005 8:04 PM  
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Subject: 10/697,894 seq

Please search for case 10/697,894:

SEQ ID NOs: 39 and 43 against commercial and interference databases.

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Elizabeth Slobodyansky, PhD

Primary Examiner  
Art Unit 1652  
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MAILBOX 2C70

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Interference: \_\_\_\_\_ SPDI: \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure#: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

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Vendors and cost where applicable

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<input type="checkbox"/>	L7	L5 NOT L6	0
<input type="checkbox"/>	L6	L2 AND BRAIN	36
<input type="checkbox"/>	L5	L2 AND ADRENAL	18
<input type="checkbox"/>	L2	L1 WITH (BOVINE OR CATTLE OR CALF)	58
<input type="checkbox"/>	L1	CGMP NEAR3 PHOSPHODIESTERASE	1323

END OF SEARCH HISTORY

## Hit List

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**Search Results** - Record(s) 1 through 10 of 36 returned.

☐ 1. Document ID: US 20050196833 A1

**Using default format because multiple data bases are involved.**

L6: Entry 1 of 36

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050196833

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050196833 A1

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beavo, Joseph A.	Seattle	WA	US
Corbin, Jackie D.	Nashville	TN	US
Ferguson, Kenneth M.	Bothell	WA	US
Francis, Sharron H.	Nashville	TN	US
Kadlecek, Ann	Madison	CT	US
McAllister-Lucas, Linda M.	Ann Arbor	MI	US
Loughney, Kate	Seattle	WA	US
Sonnenburg, William K.	Spring	TX	US
Thomas, Melissa K.	Boston	MA	US

US-CL-CURRENT: [435/69.1](#); [435/196](#), [435/320.1](#), [435/325](#), [514/252.16](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KNOW	Draw D
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☐ 2. Document ID: US 20050032833 A1

L6: Entry 2 of 36

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050032833

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050032833 A1

TITLE: Fluorinated heterocyclic compounds and methods of synthesis

PUBLICATION-DATE: February 10, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kwiatkowski, Stefan	Lexington	KY	US
Golinski, Miroslaw	Lexington	KY	US

US-CL-CURRENT: 514/312; 546/155

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 3. Document ID: US 20040258687 A1

L6: Entry 3 of 36

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040258687 A1

TITLE: Use of GCC ligands

PUBLICATION-DATE: December 23, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Waldman, Scott A.	Ardmore	PA	US
Pitari, Giovanni Mario	Philadelphia	PA	US
Park, Jason	Philadelphia	PA	US
Schulz, Stephanie	West Chester	PA	US
Wolfe, Henry	Glenmoore	PA	US
Lubbe, Wilhelm	Philadelphia	PA	US

US-CL-CURRENT: 424/143.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20040126866 A1

L6: Entry 4 of 36

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040126866

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040126866 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: July 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beavo, Joseph A.	Seattle	WA	US
Bentley, J. Kelley	Seattle	WA	US

Charbonneau, Harry                      W. Lafayette                      IN              US  
Sonnenburg, William K.                  Mountlake Terrace                  WA              US

US-CL-CURRENT: 435/199; 435/320.1, 435/325, 435/6, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20030191152 A1

L6: Entry 5 of 36

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191152  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030191152 A1

TITLE: Use of halogenated heterocyclic compounds in the treatment of sexual dysfunction and cardiovascular disease

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cutler, Neal R.	Los Angeles	CA	US

US-CL-CURRENT: 514/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030166679 A1

L6: Entry 6 of 36

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166679  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030166679 A1

TITLE: Fluorinated heterocyclic compounds and methods of synthesis

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kwiatkowski, Stefan	Lexington	KY	US
Golinski, Miroslaw	Lexington	KY	US

US-CL-CURRENT: 514/312; 546/155

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20030054992 A1

L6: Entry 7 of 36

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054992  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030054992 A1

TITLE: Cyclic GMP-binding, cyclic GMP-specific phosphodiesterase materials and methods

PUBLICATION-DATE: March 20, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beavo, Joseph A.	Seattle	WA	US
Corbin, Jackie D.	Nashville	TN	US
Ferguson, Kenneth M.	Bothell	WA	US
Francis, Sharron H.	Nashville	TN	US
Kadlecek, Ann	Seattle	WA	US
Loughney, Kate	Seattle	WA	US
McAllister-Lucas, Linda M.	Nashville	TN	US
Sonnenburg, William K.	Mountlake Terrace	WA	US
Thomas, Melissa K.	Boston	MA	US

US-CL-CURRENT: 514/12; 435/198, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMC	Draws De
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☐ 8. Document ID: US 20020151024 A1

L6: Entry 8 of 36

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020151024  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020151024 A1

TITLE: DNA encoding mammalian phosphodiesterases

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beavo, Joseph A.	Seattle	WA	US
Bentley, J. Kelley	Seattle	WA	US
Charbonneau, Harry	West Lafayette	IN	US
Sonnenburg, William K.	Mountlake Terrace	WA	US

US-CL-CURRENT: 435/196; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 6864070 B2

L6: Entry 9 of 36

File: USPT

Mar 8, 2005

US-PAT-NO: 6864070

DOCUMENT-IDENTIFIER: US 6864070 B2

TITLE: Phosphodiesterase 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 6852747 B2

L6: Entry 10 of 36

File: USPT

Feb 8, 2005

US-PAT-NO: 6852747

DOCUMENT-IDENTIFIER: US 6852747 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Resorcinol derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Terms	Documents
L2 AND BRAIN	36

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NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
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NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
  
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=> S CGMP (3W)PHOSPHODIESTERASE  
L1 10011 CGMP (3W) PHOSPHODIESTERASE

=> S L1(5A) (BOVINE OR CATTLE OR CALF)  
L2 401 L1(5A) (BOVINE OR CATTLE OR CALF)

=> S L2 (5A)BRAIN  
L3 31 L2 (5A) BRAIN

=> S L2(5A)ADRENAL  
L4 17 L2(5A) ADRENAL

=> DUP REM L3  
PROCESSING COMPLETED FOR L3  
L5 8 DUP REM L3 (23 DUPLICATES REMOVED)

=> D 1-8

L5 ANSWER 1 OF 8 MEDLINE on STN DUPLICATE 1  
AN 92065414 MEDLINE  
DN PubMed ID: 1659635  
TI Comparison of putative cGMP-binding regions in \*\*\*bovine\*\*\*  
\*\*\*brain\*\*\* and cardiac \*\*\*cGMP\*\*\* -stimulated  
\*\*\*phosphodiesterases\*\*\*  
AU Tanaka T; Hockman S; Moos M Jr; Taira M; Meacci E; Murashima S;  
Manganiello V C  
CS Laboratory of Cellular Metabolism, NHLBI, NIH.  
SO Second messengers and phosphoproteins, (1991) 13 (2-3) 87-98.  
Journal code: 9002049. ISSN: 0895-7479.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199201  
ED Entered STN: 19920124  
Last Updated on STN: 19920124  
Entered Medline: 19920102

L5 ANSWER 2 OF 8 MEDLINE on STN DUPLICATE 2  
AN 91354336 MEDLINE  
DN PubMed ID: 1652962  
TI Inhibition of \*\*\*bovine\*\*\* \*\*\*brain\*\*\* calmodulin-dependent  
\*\*\*cGMP\*\*\* \*\*\*phosphodiesterase\*\*\* by peptide and non-peptide  
angiotensin receptor ligands.  
AU Sharma R K; Smith J R; Moore G J

CS Department of Medical Biochemistry, University of Calgary, Alberta,  
Canada.  
SO Biochemical and biophysical research communications, (1991 Aug 30) 179 (1)  
85-9.  
Journal code: 0372516. ISSN: 0006-291X.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199110  
ED Entered STN: 19911020  
Last Updated on STN: 19970203  
Entered Medline: 19911002

L5 ANSWER 3 OF 8 MEDLINE on STN DUPLICATE 3  
AN 90344764 MEDLINE  
DN PubMed ID: 2166558  
TI Characterization of particulate cyclic nucleotide phosphodiesterases from  
bovine brain: purification of a distinct cGMP-stimulated isoenzyme.  
AU Murashima S; Tanaka T; Hockman S; Manganiello V  
CS Laboratory of Cellular Metabolism, National Heart, Lung, and Blood  
Institute, National Institutes of Health, Bethesda, Maryland 20892.  
SO Biochemistry, (1990 Jun 5) 29 (22) 5285-92.  
Journal code: 0370623. ISSN: 0006-2960.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199009  
ED Entered STN: 19901026  
Last Updated on STN: 20000303  
Entered Medline: 19900920

L5 ANSWER 4 OF 8 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
AN 1987:273591 SCISEARCH  
GA The Genuine Article (R) Number: H1787  
TI SUBCELLULAR-LOCALIZATION OF THE \*\*\*CGMP\*\*\* -STIMULATED  
CYCLIC-NUCLEOTIDE \*\*\*PHOSPHODIESTERASE\*\*\* (PDE) FROM \*\*\*BOVINE\*\*\*  
\*\*\*BRAIN\*\*\*  
AU MURASHIMA S (Reprint); MANGANIELLO V C  
CS NHLBI, BETHESDA, MD 20892  
CYA USA  
SO FEDERATION PROCEEDINGS, (1 MAY 1987) Vol. 46, No. 6, pp. 2250-2250.  
ISSN: 0014-9446.  
PB FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD  
20814-3998.  
DT Conference; Journal  
FS LIFE  
LA English  
REC Reference Count: 0  
ED Entered STN: 1994  
Last Updated on STN: 1994

L5 ANSWER 5 OF 8 MEDLINE on STN DUPLICATE 4  
AN 87092242 MEDLINE  
DN PubMed ID: 3025833  
TI Identification of a conserved domain among cyclic nucleotide  
phosphodiesterases from diverse species.  
AU Charbonneau H; Beier N; Walsh K A; Beavo J A  
NC AM-21723 (NIADDK)  
GM-15731 (NIGMS)  
SO Proceedings of the National Academy of Sciences of the United States of  
America, (1986 Dec) 83 (24) 9308-12.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198702  
ED Entered STN: 19900302  
Last Updated on STN: 19970203

Entered Medline: 19870206

L5 ANSWER 6 OF 8 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
DUPLICATE 5  
AN 1985:332999 BIOSIS  
DN PREV198580002991; BA80:2991  
TI CHARACTERIZATION OF A CALCIUM CALMODULIN-STIMULATED CYCLIC GMP  
PHOSPHODIESTERASE FROM BOVINE BRAIN.  
AU SHENOLIKAR S [Reprint author]; THOMPSON W J; STRADA S J  
CS DEP PHARMACOLOGY, UNIV S ALA COLLEGE MED, MOBILE, AL 36688, USA  
SO Biochemistry, (1985) Vol. 24, No. 3, pp. 672-678.  
CODEN: BICHAW. ISSN: 0006-2960.  
DT Article  
FS BA  
LA ENGLISH

L5 ANSWER 7 OF 8 MEDLINE on STN DUPLICATE 6  
AN 79194010 MEDLINE  
DN PubMed ID: 221455  
TI Effects of spermine on activity and stability of calcium-dependent  
guanosine 3',5'-monophosphate phosphodiesterase.  
AU Kincaid R L; Manganiello V C; Vaughan M  
SO Journal of biological chemistry, (1979 Jun 25) 254 (12) 4970-3.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 197908  
ED Entered STN: 19900315  
Last Updated on STN: 19970203  
Entered Medline: 19790816

L5 ANSWER 8 OF 8 MEDLINE on STN DUPLICATE 7  
AN 78066887 MEDLINE  
DN PubMed ID: 201632  
TI Phosphodiesterase activator from rat kidney cortex.  
AU Strewler G J; Manganiello V C; Vaughan M  
SO Journal of biological chemistry, (1978 Jan 25) 253 (2) 390-4.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 197802  
ED Entered STN: 19900314  
Last Updated on STN: 19970203  
Entered Medline: 19780223

=> S L4 NOT L3

L6 17 L4 NOT L3

=> DUP REM L6

PROCESSING COMPLETED FOR L6

L7 5 DUP REM L6 (12 DUPLICATES REMOVED)

=> D 1-5

L7 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1  
AN 86216224 MEDLINE  
DN PubMed ID: 3011099  
TI Hydrolysis of cyclic nucleotides by a purified cGMP-stimulated  
phosphodiesterase: structural requirements for hydrolysis.  
AU Braumann T; Erneux C; Petridis G; Stohrer W D; Jastorff B  
SO Biochimica et biophysica acta, (1986 Jun 5) 871 (2) 199-206.  
Journal code: 0217513. ISSN: 0006-3002.  
CY Netherlands  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198607

ED Entered STN: 19900321  
Last Updated on STN: 19970203  
Entered Medline: 19860709

L7 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 2  
AN 86060262 MEDLINE  
DN PubMed ID: 2999203  
TI The binding of cyclic nucleotide analogs to a purified cyclic  
GMP-stimulated phosphodiesterase from bovine adrenal tissue.  
AU Erneux C; Miot F; Van Haastert P J; Jastorff B  
SO Journal of cyclic nucleotide and protein phosphorylation research, (1985)  
10 (5) 463-72.  
Journal code: 8309334. ISSN: 0746-3898.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198601  
ED Entered STN: 19900321  
Last Updated on STN: 19970203  
Entered Medline: 19860103

L7 ANSWER 3 OF 5 MEDLINE on STN DUPLICATE 3  
AN 85203894 MEDLINE  
DN PubMed ID: 2581780  
TI Specificity of cGMP binding to a purified \*\*\*cGMP\*\*\* -stimulated  
\*\*\*phosphodiesterase\*\*\* from \*\*\*bovine\*\*\* \*\*\*adrenal\*\*\* tissue.  
AU Miot F; Van Haastert P J; Erneux C  
SO European journal of biochemistry / FEBS, (1985 May 15) 149 (1) 59-65.  
Journal code: 0107600. ISSN: 0014-2956.  
CY GERMANY, WEST: Germany, Federal Republic of  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 198507  
ED Entered STN: 19900320  
Last Updated on STN: 19900320  
Entered Medline: 19850717

L7 ANSWER 4 OF 5 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
AN 1984:430734 SCISEARCH  
GA The Genuine Article (R) Number: TC918  
TI PURIFICATION AND CGMP BINDING OF A \*\*\*CGMP\*\*\* -STIMULATED  
\*\*\*PHOSPHODIESTERASE\*\*\* FROM \*\*\*BOVINE\*\*\* \*\*\*ADRENAL\*\*\* -TISSUE  
AU MIOT F (Reprint); VANHAASTER P J M; ERNEUX C  
CS FREE UNIV BRUSSELS, SCH MED, INST INTERDISCIPLINARY RES, B-1070 BRUSSELS,  
BELGIUM; UNIV LEIDEN, BIOL LAB, CELL BIOL & MORPHOGENESIS UNIT, 2311 GP  
LEIDEN, NETHERLANDS  
CYA BELGIUM; NETHERLANDS  
SO ARCHIVES INTERNATIONALES DE PHYSIOLOGIE DE BIOCHIMIE ET DE BIOPHYSIQUE,  
(1984) Vol. 92, No. 1, pp. B44-B45.  
ISSN: 0003-9799.  
PB SWETS ZEITLINGER PUBLISHERS, P O BOX 825, 2160 SZ LISSE, NETHERLANDS.  
DT Conference; Journal  
FS LIFE  
LA English  
REC Reference Count: 2  
ED Entered STN: 1994  
Last Updated on STN: 1994

L7 ANSWER 5 OF 5 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
AN 1982:131330 SCISEARCH  
GA The Genuine Article (R) Number: NG282  
TI PARTIAL-PURIFICATION AND CHARACTERIZATION OF \*\*\*CGMP\*\*\* -STIMULATED  
NUCLEOTIDE \*\*\*PHOSPHODIESTERASE\*\*\* FROM \*\*\*BOVINE\*\*\*  
\*\*\*ADRENAL\*\*\* -MEDULLA  
AU NEIDIG M (Reprint); COFFEE C  
CS UNIV PITTSBURGH, SCH MED, DEPT BIOCHEM, PITTSBURGH, PA 15261  
CYA USA  
SO FEDERATION PROCEEDINGS, (1982) Vol. 41, No. 3, pp. 760-760.

ISSN: 0014-9446.  
PB FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3998  
USA.  
DT Conference; Journal  
LA English  
REC Reference Count: 0  
ED Entered STN: 1994  
Last Updated on STN: 1994

=> DIS HIS

(FILE 'HOME' ENTERED AT 21:11:59 ON 20 JAN 2006)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,  
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 21:12:14 ON 20 JAN 2006

L1 10011 S CGMP (3W)PHOSPHODIESTERASE  
L2 401 S L1(5A) (BOVINE OR CATTLE OR CALF)  
L3 31 S L2 (5A)BRAIN  
L4 17 S L2(5A)ADRENAL  
L5 8 DUP REM L3 (23 DUPLICATES REMOVED)  
L6 17 S L4 NOT L3  
L7 5 DUP REM L6 (12 DUPLICATES REMOVED)

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	38.92	39.13

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 21:17:12 ON 20 JAN 2006